



Senior Week Option Sales To Begin Dec. 1

**"Buy Now," Say Tyree,
"Prices May Increase
In Later Campaigns"**

"Buy your options for Senior Week now," cautioned S. Young Tyree, '42, chairman of Senior Week committee, last night, "so that the best budget and best entertainment for the Class of '42 can be arranged." Options are to go on sale Monday, December 1, at the sales desk in the Main Lobby of Building 10, at \$4.35 each.

Plans at present indicate that there is to be only one sale of options for the affair; but if another sales campaign is deemed necessary by the committee there will be an increase in price of at least one dollar, it was decided at the last meeting.

Committees selected at the last meeting to take charge of the various events of the day include: Senior Ball Committee, headed by Carl L. McGinnis, and including Gordon H. Hill, Richard T. Merritt and Walter S. Eberhard; Publicity Committee headed by John J. Quinn, aided by Carthrae M. Laffoon, Jr., and Albert F. Clear.

Other Committees

Other committees include the Sales Committee consisting of Paul M. W. Bruckman, chairman, W. Hoover Shaw, and Filo H. Turner; the Senior Banquet committee with

(Continued on Page 4)

Debating Society Has Busy Weekend

**Harvard, B. U. Frosh,
And Squad Debate
Set for One Each Day**

The M.I.T. Debating society, with three debates scheduled for this week end, will open their activity this evening at 5:00 P.M. when the freshmen team engages the freshmen of Boston University in Litchfield Lounge.

The freshmen will defend the affirmative of the subject, "Resolved: That the Federal Government should regulate by law all labor unions in the United States." Bruce A. Laberton, '45 and James G. Ulmer, '45 are the members of the team in this debate, which is the second freshman debate of the season.

Squad Debate

At 5:00 P.M., Saturday evening there will be a squad debate in which the Technology team of Edward P. Eaton, Jr., '44 and John W. Colton, '45 are to argue the affirmative of the topic, "Resolved: That the Federal Government should regulate by law all labor

(Continued on Page 4)

Making Engravings Remains An Art; Reporter Describes Processes Used

(Ed. Note: The Tech is one of the few student newspapers in the United States to own and operate an engraving plant. The art and science of engraving is unfamiliar to most people, but it has enjoyed some popularity as a hobby for those who can afford it. The following article is intended to acquaint Technology students with some aspects of the process. Opportunities are open on the engraving staff of The Tech for apprentices to learn the craft and at the same time become regular members of the newspaper staff.)

As photography has supplemented and, to some extent, replaced oil paintings, so modern methods of making engravings have replaced the art of cutting linoleum or wood blocks by hand. The increased demand for more pictures in books and magazines has made imperative the development of controlled, scientific processes which are sufficiently rapid to facilitate speedy delivery of engravings to newspapers and periodicals. In spite of

General Notices For Student Body

1. Twenty-three shopping days to Christmas.
2. Remember micro-film exhibition.
3. Remember T. C. A. drive pledges.
4. Remember income tax returns.
5. Keep in touch with your draft board.
6. Put the cat out.

Tech Sing Plans Set Last Night

**Classical Orchestra
Will Open Concert
Before All Compete**

The program for the All-Tech Sing was announced last night by Chairman Ray O. Wyland, '42. Consisting of four separate divisions; the festival will open with a concert by the newly formed classical orchestra. After this will be the main event of the evening, the group competition. This will be followed by a rendition of the Glee Club, under the direction of Mr. Henry Jackson Warren. The evening will be concluded by a free dance, featuring the Techonians, recently revived popular orchestra of Technology.

Two new entries for the group competition have been received, Alpha Tau Omega, and the T.C.A., who will render their theme song written by Professor Morris. Judges include Mr. Orville B. Dennison, Mr. and Mrs. Henry Jackson Warren, Mrs. Karl T. Compton, and Mrs. James R. Jack.

Patrons and Patronesses

Patrons and patronesses for the affair, who have already accepted invitations, include Dean and Mrs. Robert G. Caldwell, Dean and Mrs. Edward L. Moreland, Professor and Mrs. Raymond D. Douglass, Professor and Mrs. Richard K. Koch, and Professor and Mrs. George Owen.

Because of conflicts with other affairs, the sing will be held at 8:30 P.M., instead of the announced time, 9:30 P.M.

First Come—First Serve For Well-Tech Frolic

Tickets to the annual Well-Tech Barn Dance go on sale at 9 A.M. Saturday morning, November 29, in the T.C.A. office it was announced by G. Kendall Parmelee, '45, dance chairman. The dance, sponsored by the T.C.A., is to be held from 8-11:30 P.M., Saturday, December 6, in Alumnae Hall at Wellesley.

The tickets are priced at \$.50, and because the attendance is limited to 150 freshmen and Sophomores, the tickets will be issued on a first-come-first-served basis. The dance committee has chartered two buses, which leave Walker at 7 o'clock for Wellesley. The charge for transportation will be \$.30 for the round trip.

Vu Seeks Woman; Identity Of Dancer To Be Discovered

Dark mystery surrounds an outstanding photograph taken at the recent Sophomore dance by a member of the Vu board. The picture is among those "one in a lifetime" shots which are the dream of every photographer. The puzzle, however, lies in the fact that no one, not even the men-about-town of whom Vu's staff is composed, has the vaguest idea as to the identity of the young lady pictured. This is an almost unheard-of situation, as the girl is definitely pulchritudinous.

Accordingly, Vu is submitting the following description of this "maiden of mystery," and will give a copy of the picture to the first student who correctly names her in a letter to Vu, care of The Tech, 301 Walker Memorial.

Blonde and Beautiful

The girl has blonde hair with attractive bangs, and was wearing a salmon-pink dress with brown fur trim across the arms and a low neckline (of course). The only other distinguishable feature was a lovely crop of freckles across her shoulders. Come on, boys, 'fess-up! Rack your brains, and ransack those little black books. It's worth it!

Magoun Lectures As 530 Attend

**Marriage Criteria
Discussed Tuesday
Before Two Groups**

The opening lecture of Professor F. Alexander Magoun's series, entitled "In Preparation For Marriage," attracted 530 students, including a few co-eds from nearby colleges, to Huntington Hall, Room 10-250, last Tuesday afternoon.

"Criteria For A Happy Marriage" was Professor Magoun's subject, and he urged his listeners to consider carefully the importance of a happy marriage to a man's career. "The happily married man is always more useful in business," he said, "because he is more dependable, a better worker, and more socially adequate."

Four Main Criteria

The four criteria cited by Professor Magoun are: mutual emotional

(Continued on Page 4)

A.S.M.E. Provide Movies On Steel

"Steel in Industry, Its Uses and Manufacture" will be the subject of a series of four sound films to be given during December under the sponsorship of the student chapters of the American Society of Mechanical Engineers, and the American Society of Civil Engineers. Produced by the Bethlehem Steel Corporation, the series will be issued in four installments at the following times: December 1, from 4 to 5 P.M.; December 8, 4 to 5 P.M., and again from 5 to 6 P.M.; December 15, 4 to 5 P.M.; and December 22, 5 to 6 P.M., all to be presented in Huntington Hall.

The first picture "The Manufacture of Structural Steel Shapes," illustrates various processes used in the Bethlehem Steel Company plants. The San Francisco Golden Gate bridge, largest suspension bridge in the world, is the subject of the second film. This movie will deal mainly with the bridge construction.

The third picture is entitled "Streamline Steel," and shows the application of laboratory theories in industrial practice. Finally a technicolor film, "Steel Wire" will illustrate unusual aspects of the subject. All the showings are to be open to the student body.

Course Exhibit Series Tabled By Committee; Plan Journal Instead

Technique Photo Proofs Must Be Returned Now

Those Seniors whose pictures were taken by the Technique photographer during his last visit here must return their proofs before 5 P.M. today at the sales desk in the Main Lobby. The proofs must be returned whether an order for the photographs is placed or not.

The Zamsky studios will be represented in the Main Lobby of Building 10 from 9 to 5 today to receive the proofs and also take orders for pictures.

"The Guardsmen" First Production Of The Dramashop

**Give Molnar's Comedy
In Peabody Playhouse
On December 5 and 6**

Nolan's "The Guardsmen," the first dramatic effort of this year's dramashop, will be staged at the Peabody Playhouse at 8:00 P.M. on the evenings of December 5 and 6.

This play is a sophisticated comedy dating back to about 1912. Unlike Noel Coward's sophisticated comedies, this does not depend so much for its humor upon the dialogue as it does upon the situation.

According to Professor Fuller, the Dramashop is striving to overcome a slightly unsympathetic attitude resulting from one of last year's bills of one act plays. As a result, a Dramashop will be making every effort toward the success of this play.

Tickets will soon go on sale in the main lobby of building 10. They may also be obtained from members of the Dramashop.

Soph Committee Return \$120 Bond

**Flowers Announces
Promenade Budget;
344 Tickets Sold**

Over \$120 of the Soph Prom Committee bond will be returned to the members, said Langdon S. Flowers, '44, Sophomore Class president last night when he read the report of his Committee at the Institute Committee meeting. This amount represents a return of over \$3 to each member of the Committee.

Total expenses of the Prom amounted to \$1,986.88, of which \$1,200 went to Gene Krupa and his company, who supplied the music for the affair. Total number tickets sold reached 344 and an additional \$200 was received from the sale of tickets to the forty committee members.

Flowers released the fact that the \$66.88 bond was needed to meet expenses. Accordingly, each man on the committee can expect to receive approximately \$3.33 back from his original \$10.00. Flowers pointed out that this is considerably more than most dance committees ever get back.

Sedgwick Biologists Will Meet December 2

A series of three lectures by members of Course VII dealing with various aspects of biological research will be given at a meeting of the Technology Chapter of the Sedgwick Biological Society, which is to be held at 7:30 P.M. next Tuesday evening, December 2, in the Emerson Lounge.

Institute Solons Give Q Club \$25; Debaters, \$141 In Heavy Session

For the time being, at least, the Open House Committee's plan for a series of course exhibits has been cancelled, it was learned at last night's meeting of the Institute Committee. Daniel C. Hulett, '42, chairman of the committee, announced that plans are under way for the proposed publication of a pamphlet to publicize Institute undergraduate social life among prospective students. Hulett explained that work on this pamphlet was replacing the course exhibits plan as the project of the Open House Committee.

The Open House Committee is at present drafting the plans for this publication, hoping to secure the approval of the Corporation, which is necessary before the pamphlet can actually be published. Professor Frederick G. Fassett, Jr., Editor of the Technology Review, and James R. Killian, Jr., executive assistant to President Compton, are helping the Committee in drafting these first preliminary proofs of the magazine.

The staff of this proposed publication

(Continued on Page 4)

Alpha Chi Sigma Initiates Fifteen

**Informal Initiation
Will Be Held Dec. 11;
Formal, At Dance**

Fifteen men have been placed to Alpha Chi Sigma, honorary chemical society. Today there will be a meeting of the initiates in Room 6-215. On Tuesday, Dec. 11 the informal initiation will be held, to be followed by the formal initiation at a dinner dance December 13.

Members elected include John L. Harsch, '43; L. Earl Nelson, '43; Robert Greene, '43; John F. Tyrell, '43; David S. Christison, '42; Harry E. Knox, '42; Philip E. Phaneuf, '42; Frank E. Briber, '43; John E. Gardner, '43, and William Franklin, '43. Men who have not yet been initiated are Robert M. McBride, '42; Walter S. Eberhard, '42; Thomas J. Dolan, '43, and James A. Malloch, '43.

Vu Elects Five Board Members

Five members were elected to the staff of Vu, infant member of Technology's undergraduate periodicals, at the last meeting of the Managing Board. Due to the tremendous success of the initial issue, the original board decided to create an associate board of five members, to help determine the future of The Tech's promising protege.

William G. de Hart, '44, William E. Harper, '43, Martin B. Levene, '42, Paul Travers, '43, and Trygve Blom, '43, were chosen as the five men most deserving of election for their outstanding work the first issue.

In accordance with the original policy of Vu, as announced last May, members of the staff are chosen on a basis of performance. Therefore this associate board has already had considerable experience, and is active in the preparation of the next issue of the magazine, to appear after the Christmas recess.

The Tech

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A PROBLEM

One of the favorite complaints made by students about instruction in the various courses is the fact that almost every instructor uses different symbols for the same physical quantities.

Although this condition is probably recognized by the faculty, it is undoubtedly dismissed as one too trivial for serious consideration. However, from the viewpoint of the student—particularly the one who has difficulty absorbing the material at the rate it is offered here at the Institute—this lack of organization of the engineering symbols presents a picture of utter confusion.

This problem is by no means peculiar to the Institute, it is typical of the entire engineering field. This condition makes it doubly hard for anything constructive to be accomplished by any single group.

Nevertheless, the Institute could make a great step toward simplification of many courses here by attempting to standardize engineering symbols, and such work might very logically serve as a foundation for similar clarification in the engineering world as a whole. There could be nothing more valuable that the Institute could contribute to educational methods than a standardized system of symbols. We feel that the Institute owes it to engineering society to take a leading step in this matter.

WAKE UP AND LIVE

"Let the sleeping dog lie" may apply in some cases, but in the case of the Student-Faculty Committee that proverb has held sway entirely too long already. The time has come to be up and doing.

Apparently the main problem is one of common direction. Student opinion indicates that there is a feeling of a definite need for an active liaison group between the undergraduate body and the faculty, and the student members of the committee claim that they want to do something but haven't the power.

With this in mind it seems to us that the best thing for the Student-Faculty Committee to do is survey the situation and draw up a plan by which the problems could be handled adequately. Then the committee

would have something definite upon which to work, but it could not fall back upon the flimsy excuse that it wanted to do something and did not have the means.

If the present organization and powers of the committee are not sufficient, steps should be taken for their correction, and no more likely source than the committee itself could initiate the move. A committee can not rightly ask for more power until it has proved that it is deserving and responsible.

One example of the type of problem that the committee might handle is that of standardizing engineering symbols as mentioned in an above editorial. Although the actual work would probably be beyond its capabilities, the committee could certainly lay the ground work.

We feel that the school needs a real Student-Faculty Committee, and that the present members of the committee, both student and faculty should do all in their power to uphold their responsibilities.

SPEAKERS TO THE FORE

Two weeks ago the first announcement was made concerning the 1941-42 Stratton Prize contest, at which time the names of the departmental aides were released. Although the contest is held in the spring, announcements are made in the fall so that some of the entrants can work on their topics during the Christmas and mid-term vacations.

The Stratton Prize contest is held annually to enable the students to gain experience in presenting scientific papers that are of contemporary interest to the average student. It is of particular value in light of the criticisms made by industry that the young engineer can not express himself adequately in writing or speaking before a group.

The only eligibility requirement is that one must be a student at the Institute. Similarly no restrictions are placed upon the exact nature or scope of the topic.

This contest is one of the few student functions that are sponsored directly by the school and, with the Debating Club, offers the only opportunity at the Institute for forensic activity.

Those students who feel that they might enjoy preparing a scientific paper and that they need the experience it would afford should pick a subject before Christmas vacation. A little work now will be much better than a lot two weeks before the contest.

SOMETHING NEW IS ADDED

To those students who were puzzled as to why this and the last issue of The Tech were so much easier to read, we take this opportunity to announce the trial of a new type face for the body material of The Tech.

The student of typography will recognize that the new type is Ionic as compared with the former Modern type. The Ionic type is a new font that has been scientifically designed to permit easy reading. This effect was accomplished, as can be noted by a comparison with old issues of The Tech, by making the individual letters larger and more open.

Clippings—

From that popular column of the Simmons News (in back copies we've got around)

Sally Simmons Says . . .

That with all the lines at Harvard and with all the worms (hooked and otherwise) at Tech, its open season for the poor fish at Simmons.

That for the first time yesterday she longed to be a man; she was on the subway and wanted a seat.

That it was very funny when she took her roommate's call the other night, and it turned out to be her head man switching his affections.

That she is now in the doghouse with a certain senior, because she thought the Hobo Party was last Thursday night and complimented said senior on her shaggy costume.

That our dances are just as incomplete without M.I.T. as their's without Simmons—or are we being optimistic.

HARVARD MARCHES ON RADCLIFFE, AGAIN?

HARVARD BOYS COMPLAIN
BECAUSE RADCLIFFE USES
THE HARVARD LIBRARY
—CRIMSON



HARVARD BOYS ARE EASILY
DISTRACTED

Radcliffe is welcome to use
our Library



IF They Think it's safe

PERHAPS THEY'RE AFRAID
THAT—



SARGENT WILL DECIDE TO
USE THE WIDENER LIBRARY,
TOO.

They CAN even TAKE ONE
of our better Courses—



—G-75!

For Boys To Play

by Stewart Rowe and Joseph Tankoos

First prize for originality and novelty goes to the Sigma Nu fraternity for the flood of Western Union telegrams which inundated dormitory and fraternity mail boxes Tuesday morning. Smirks and smiles to the social committee which thought of this most novel bid.

Peace and quiet in South America; dust storms and floods in the Middle West; and war, strife and turmoil in the rest of the world; have little effect on the social and intellectual insularity of Technology. Despite "defense workers" filling corridors and disappearing behind ominously closed doors, and despite Henry Luce's grim predictions in Technology's most widely read magazine we go blithely to school until Friday and then a gay and festive air settles down for the week-end.

Theta Delta Chi and Delta Psi Entertain

Comes tonight and with it comes one of the best parties of the semester. On the roof of the Hotel Bradford the Theta Delta Chi lads let loose in their Annual Pledge formal. Despite the loss of Happy (Spider) Hense the "Thirty Dirty Chink" are still holding their end up bravely in the whirl of fun life.

Awaited since spring, the Delta Psi Beer Party occurs tonight also. In a social world which becomes monotonously filled with formal dances and mediocre looking girls in mediocre looking evening dresses this annual stag bust-out replete with beer and huge quantities of hearty, wholesome cheese and ham and mustard and rye bread—refreshments in the 1890 manner—is indeed welcome.

Formals, Formals, And More Formals

Along these lines we reflect meditatively that surely no other school in the country must spend so much money to rewhiten white vests for the next week-end's four or five formals. Despised as party boys and regarded as the unsung heroes of sweat and toil and slide rules, the fact of the matter is that Technology sponsors more undergraduate social life—dances parties, etc.—than most of the so-called "party" schools.

The Institute is indeed a "place for men to work and for boys to play"—but why must we always play in white ties and tails. The Entertainment Engineering department at this point goes out on a plank for more informal custom dances such as the coming D.U. Carnival; the Beta Barn Dance, and the S.A.E. Sailor Dance.

Baton Sponsors All-Tech Sing

The long planned for Tech Sing has at last become a reality—thanks to the work and effort of the Musical Clubs honorary society—Baton. The present plans, calling for two

orchestras, both student groups of course would indicate that both the musically fastidious and the more ephemeral music addicts will be satisfied.

The Sing will also present an opportunity to hear in large quantities those informal ditties and choruses which unfortunately are generally sung by small groups in tap rooms—in a slightly more-ahem-informal vein, of course.

The Baton society is indeed presenting rare opportunity for all of Technology to gather in a spirit of informality and conviviality.

M.I.T. MEN WELCOME

BARN DANCE

and

RECORD DANCE

Saturday, Nov. 29

8-12 Harvard's Memorial Hall

Stag 66c. Couple \$1.10

IT'S EASY! IT'S FUN

HEY, HEADING FOR HOME?

Start right and easy! Send your luggage round-trip by trusty, low-cost RAILWAY EXPRESS, and take your train with peace of mind. We pick-up and deliver, remember, at no extra charge within our regular vehicle limits in all cities and principal towns. You merely phone

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NATION-WIDE RAIL-AIR SERVICE

ADDED ATTRACTION!

Every Night 7 P.M. to 9 P.M.
The Eminent Young Composer

RAYMOND SCOTT

His Orchestra & The Quintet
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CONCERT of

ULTRA-MODERN

AMERICAN MUSIC

In addition to their regular program of dance music from

7 P.M. to closing.

FULL COURSE

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Bea

By

Winter sp a royal send from today. and hockey seasons aga ion Univers later, the sw bandwagon R.P.I. and A end.

Probably, opening fra battle betw and a Cante tically the uted to Tec

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Touch Games

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After th will be on tournamen teams hav losses elim contest. C man of ti says that t be over wir if the we: for all s played. It be no rep- luck of pic on a field

Beaver Briefs

Harry Ottinger

Sports at Technology get off next Friday, a week when the basketball teams launch their contest against Harvard and Boston University, respectively. A week of swimming will follow and go west to meet Amherst over the week-end.

The highlight of the week will be the basketball game between the Beaver varsity and five made up of practice men that contributed to the 34-36 loss last year.

A scrimmage last Monday, between the varsity and the Institute frosh squad, gave all indications is one of the best first year aggregations in several years. The next Friday will likely see Co-captains Dan and Ernie Artz, Marakas, Jerry Coe, and lined up against the Institute.

Coach Owen will start the season with a veteran team. Brown greeted thirty at the first practice but backing out with nineteen these, five lettermen, Cap-negan, Ed Buckley, Joe Rothschild, and Bill likely starters.

A promising picture is given by the boys who get the milkman and hurry to the Boston Arena three mornings to polish up on their game. For the first time in years, Coach Owen will have to alternate during the season.

Consequently the two teams can attack at full pressure and maintain a high pressure throughout the season.

Freshman front, the most hopeful rests in good hands with freshmen swimming coach Dan Smith putting his faith in their paces daily at the pool. Already credited with a victory over the Sophomore Field Day, this squad is shaping into a formidable team. Expect one of the best which a Technology freshman team ever made meet Harvard on December 5.

Football Continue

Natural Contest Conclusion

Teams Remain

Beaver Key Society's touch-football tournament will be continued Sunday with the games postponed because of the driving rain, which means a much needed rest. One game played last week by hardy teams who could not wait. In this contest Delta defeated Phi Mu.

Ten teams left in the league following the five games played. Gamma Delta vs. Sigma Delta, Phi Kappa Sigma vs. Sigma Delta, Senior A vs. Goodale, Sigma Delta Kappa Epsilon, Tau Delta vs. Sigma Chi. The mentioned game promises to be one, or at least a record breaker, as both the Phi Gam's and Sigma are so far the only undefeated teams in the league.

A series of contests there will be six teams left in the league as each of the last eight lost one game, and two minutes any team from the league. George C. Marakas, chairman of the football tournament, expects the contest is expected to begin in the next three weeks. Whether holds well enough to schedule games to be played is hoped that there will be no repetition of last year's bad weathering some of the games of snow and ice.

Swimming Teams Get Champion Diving Coach

The Advisory Council on Athletics has appointed a new assistant swimming coach in charge of diving, Mr. Henry McNamara. A runner up in last year's National AAU indoor high board championships, Mr. McNamara has been Massachusetts State Champion and Y.M.C.A. Two-State Champion in diving.

He has come here in charge of both Varsity and freshman diving. In the former he has an exceptional squad, from which he hopes to develop a team which will be outstanding in this year's meets.

Trophy Contest To Be Decided On New Basis

Beaver Key Society Announces Change In Scoring Events

The Beaver Key Society has announced a change in the scoring of points in the annual contest between living groups for the Beaver Key Trophy. This year the points will be awarded on the basis of what place each team holds instead of on the number of games won in the round-robin games as in the past, as there will be no round robins in any of the tournaments.

The points are to be issued the ratio of 5, 3, 2, 1, for the first four teams placing. In this fall's football tourney, the winners will get 45 points, second 27 points, third 18 points, and fourth nine points. This same schedule will go for the basketball series this winter. Volleyball and baseball each receive 30 points for first, 18 for second, 12 for third, and six for fourth. The points for the track meet will be 25 for first, 15 for second, 10 for third, and five points for fourth.

In addition to these points for placing high, any team which plays faithfully will receive 1 point for each game played, and two points for participating in the track meet. There is also a rule requiring four men to be present at the track meet to consider an organization in participating. There is also a penalty of two points for defaulting without giving twenty-four hours notice.

Calvin B. Dunwoody, '43, was elected chairman of this winter's volleyball tournament. Frank E. Briber, Jr., '43, chairman of the basketball tourney, has announced that the games will begin after the Christmas vacation, and continue for three weeks. There will be a short interim, and then play will be resumed after semester vacation.

League Squash Will Start Soon

The Beaver varsity squash team will open its current season of intercollegiate competition by meeting two of the strongest teams in New England, Harvard and Dartmouth.

To date the varsity has lost all three of the matches it has played in the Massachusetts Squash Racquets Association. The last one was lost to Harvard College 1-4, here Wednesday. The sole winner on his team was Captain Jack Sheetz, who defeated Harvard's number one man, Wilson, by scores of 15-10, 15-11, and 18-16. In revenge, Harvard's number two man Frothingham, took Lew Stouse 15-18, 18-17, 15-13, 17-18, 15-4, in a hard fought series. Encouraged by this win, the Crimson number three, Clay, took the third set by three straight games over Bud Trexel, 15-13, 15-11, 15-11. Gould of Harvard then followed with another straight set victory over Morrison with scores of 15-9, 15-4, 15-8. A final touch of Red and Gray spirit was shown when Badger came up to bat as number five man for Tech; after losing his first two games 15-10, 15-10, he rallied in the third game to win 15-12, but then lost the fourth set, 15-13, to his opponent Flint.

Girl Cheerleaders To Aid At Harvard vs. Technology Basketball Opener On Dec. 5

Wrestlers End Finals In Gym

Six Weight Classes Conclude Matches For First Place

The intramural wrestling tournament finals ended last night with coach Johnny Lutz describing it as "the best tournament in four years." Splendid attendance marked the success of the meet as well as the quality of the competition in the tournament itself. The material discovered has been exceptionally good with exception of the 121 pound and heavy weight classes stated Coach Lutz. Although the first-place winners have been decided, the matches for second and third place will not be complete until Monday.

The present winners are as follows: 121 pound class, no entries; 128 pound class, Gilooly, '44; 136 pound class, Mayne, '45; 145 pound class, no entries; 155 pound class, Damsguard, '44; 165 pound class, Ackerman, '45; heavyweight class, Bowen, '43.

Medals, 24 in all, are to be awarded to the men gaining first, second, or third place in each of the eight classes. With eliminations continuing, the winners of these medals will be announced when all the matches in the tournament have been finished, which will be next Monday.

As the purpose of the tournament is to promote interest in wrestling, Coach Lutz is hoping to see men reporting for the 121 pound and heavyweight classes in order that the team will not suffer ineligibilities in these categories.

Mermen To Open Season At R. P. I.

Varsity Schedule Indicates Majority Of Meets Are Away

Going to Troy, New York, on Friday December 5, the Varsity Swimming team will open their season with a meet against Rensselaer Polytechnic Institute. The next day they will stop for a meet with Amherst on their way home. This week end is typical of the season for the team this year, for they have only three out of eleven meets in their own pool.

Harvard will be the last competitor before Christmas, the team going there on December 17. On January 10 the team goes to Wesleyan at Middleton, Conn, and travels to Brunswick, Maine the following week end to face Bowdoin. Resting for a month around mid-years, the team has its next meet at Hartford against Trinity, on February 17. The 21st they go to Brooklyn for a meet with Brooklyn College, and then come home to face Boston University on the 25th. The other two meets of the season are at home, the next being a triangular meet with Massachusetts State and Worcester Tech on March 6, the next day Connecticut comes here for a meet to end the dual meet season. The actual season will end with the New England Intercollegiate Championships at Amherst on March 13 and 14.

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Sunday Services 10:45 a. m. and 7:30 p. m.; Sunday School 10:45 a. m.; Wednesday evening meetings at 7:30, which include testimonies of Christian Science healing.

Reading Room - Free to the Public, 133 Washington St., opp. Milk St., entrance also at 24 Province St., 420 Boylston Street, Berkeley Building, 2nd Floor, 60 Norway St., corner Massachusetts Ave. Authorized and approved literature on Christian Science may be read or obtained

Varsity Football Comm. Urges Student Opinion

The newly appointed Football Investigation Committee of the M.I.T.A.A. is now in the midst of an inquiry on the feasibility of maintaining a varsity football team at the Institute. The committee, consisting of Karl E. Wenk, '42, Chairman; Charles S. Ricker, '42; John E. Gardner, Jr., '43; Robert W. Anderson, '43; Robert B. McBride, '42, and John J. Quinn, '42, would like the students of the Institute to express their opinions on the subject.

Interclass Regatta To Run Tomorrow On Charles Basin

Crowley Wins Vose, Aschaffenburg Second; Guyer Gets Nickerson

The annual inter-class dinghy regatta will be held tomorrow afternoon on the basin off the sailing pavilion. Each of the four undergraduate classes have entered a team along with that of the graduates. These teams each consist of three crews, who will sail in divisions consisting of one crew from each group. The regatta will be in charge of Kenneth F. Warden, '43, chairman of the race committee.

These races should be very close with the experience behind the Seniors and Graduate students, and the showing which the Frosh made in defeating the Sophomores several weeks ago, promising to keep the boats in a tight fleet.

Crowley Gets Vose Cup

Commodore Thomas T. Crowley of the Nautical Association has been awarded the Vose Cup as a result of the races which have been run this fall. Hans Aschaffenburg stood a very close second in the point standings. The Nickerson Trophy was won by Lou Guyer.

Practice Planned For Hockey Team

To give the boys some real opposition a scrimmage has been scheduled with the Brae Burn Club of Newton for Sunday morning at 10:30 in the Boston Garden.

The Brae Burn team consists of older men who have been players for Harvard, the Olympics, or other amateur or professional teams. Last year a similar scrimmage was held at this same time of year.

Coach George Owen and co-captain Dave Christison have high hopes for the coming season as two full teams are now available for alternation during games. In former years only one team and often no substitutes have been available during regular games.

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Coeds Will Lead Yells At Game Which Precedes All-Tech Sing

Sports are coming into their own at Technology. For the first time in our history, we are going to enter a full-fledged basketball game with the benefit of a full-fledged cheer team.

Three freshmen and a Senior have volunteered to take charge of the cheering at the coming Tech-Harvard game which will take place Friday, December 5.

Not the least of the story is the fact that two of the cheerleaders are of those well-known species which is commonly known as the "Tech Coed." The two girls, Melissa B. Wood, and Lenore Brooks, '45, William A. Lustberg, '45, and Arnold A. Dach, '42, Miss Wood may be remembered by the fact that she cheered at the frosh rally.

The Athletic Association is making plans for a more elaborate staff after this game. According to Frank B. Herlihy, '42, president of the Association, they are now planning for a permanent cheer squad of two Sophomores, two Juniors, and a Senior. The Sophomores will get class numerals, and the Juniors and Seniors will get letters. As yet, no provision has been made for freshmen. As Herlihy, ungrammatically puts it, "Cheerleaders are soon to add to the athletic curriculum of the Institute."

This is all part of the program which has been planned for Friday night. It is typified by the motto, "cheer, sing and dance." The All-Tech sing has been moved up until after the game and there will be a free dance in Walker afterward. Incidentally, the price of the game, which will be at Harvard, has been lowered to 40 cents.

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Nautical Ass'n. Schedules Dinner For Dutch Room

Nickerson, Smith, And Vose Trophies Are To Be Presented

The Nautical Association will hold its annual banquet in the Dutch Room of the Graduate House on Friday, Dec. 5 at 6:45 P.M., at which time the various sailing trophies will be presented. Jack Wood and Professor Owen will be present and all Nautical Association members are invited to attend. The Metropolitan District Commission will provide part of the entertainment for what should be a very enjoyable evening.

During the evening the Vose Cup will be presented to Tom Crowley, the Smith Trophy to Ed Adams, and the Nickerson Trophy to Louis Guyer. Recognition will also be given to Frank Kolk and Lester Corrison, winners of last year's first and second summer series. Domina Spencer and Jack Pfinger will also receive credit for their victory in last year's bum crew race.

The Art Of Engraving

(Continued from Page 1)

toons, or any design for which there exists no preformed type. The process consists of photographing the original drawing in order to obtain a negative of high contrast. When the negative is developed and fixed, the emulsion must be loosened, stripped from the plate, and overturned so that the final product will not be reversed. Upon a piece of copper or zinc, previously sensitized with a collodian similar to that used on the photographic plate, the negative is placed and the exposure made. The metal plate is processed in a manner similar to that used in making an ordinary print. After fixing, the metal plate presents a surface which is impervious to acids where it has been exposed, and vulnerable to electrolytic action where the fixer has dissolved the unreduced silver compound. By acid etching or by electroplating, metal is removed from the unprotected part, leaving ridges on the metal plate which represents the desired design. After routing excess metal from large open spaces, the metal is mounted on a wooden block and is then ready for the printer.

Half-Tones

A somewhat different process has been devised for the making of half-tones, where it is necessary to reproduce shades ranging from pure white to pure black. Since it is not possible to produce shading by lighter application of ink, an optical illusion is used to create this effect. A dot effect, which can represent any shade, is produced by means of a ruled screen placed in front of the engraving negative during exposure. Even if the picture is white, the little dots will prevent the light from passing through. When this negative is printed on the plate, the dots remain as high points, producing a minimum of shading, yet keeping the paper from sagging down into the areas which are not supposed to take ink.

The process demands elaborate equipment and careful preparation. The chemistry is similar to that used in ordinary photography, but the process is longer, and careful control must be maintained.

Through first-hand application of the above procedure, a valuable knowledge of chemistry can be gained. In addition to the technological advantages of such a knowledge, the craft is now so widely utilized in business that first-hand knowledge of the method of engraving production would be advantageous in supervising the publication of books and periodicals.

Institute Committee

(Continued from Page 1)

cation is at present composed of the members of the Open House Committee, with Carthrae M. Laffoon, Jr., '42, as Editor-in-Chief, and Harry E. Knox, Jr., '42, as Business Manager. Other members of the committee are Sheppard Y. Tyree, Jr., '42, Charles S. Ricker, '42, and Arthur H. Sweeney, Jr., '42.

This pamphlet will be similar to others published in the past, but is intended to acquaint prospective students with undergraduate life as a whole, instead of scholastic aspects alone, according to Hulett. Like its predecessors, it will be financed by the Corporation, if approved. Unlike the other, however, it will be planned and published by the students. Present plans, only tentative, call for publication of about 25,000 copies, to be distributed by Alumni secretaries, the Admissions Office, and other agencies in contact with prospective students.

Other Business

Discussion and approval of this report of the Open House Committee, was almost the full extent of the business conducted at this short Institute Committee meeting. Other matters attended to included the allocation of \$141 to the Debating Society, and of \$25 to the Quadrangle Club, Sophomore Honorary. The appointment of Robert B. Rumsey, '43, as Junior member of the Senior Week Committee was also approved, and Langdon S. Flowers, Soph Prexy, presented the report of the Soph Prom Committee, which announced a loss of only \$66.88.

Scabbard And Blade Initiations Begin 6 P.M.

The beginning of the end of the Scabbard and Blade initiations will take place at Hartwell Farm at six o'clock tonight.

The initiates will leave for Hartwell farm at 6:00 P.M., and will be greeted upon arrival by the annual initiates banquet. Following this they will start on the annual ten-mile hike to Concord, upon which they will lug the same rifles which they have been carrying for the past few days. Everyone is expected to be in by Saturday night.

The Scabbard and Blade is a National Honorary Military Society for members of the advanced R.O.T.C.

Lounger—

More Transportation — or "Blow, Blow Thou Winter Wind."

And then there is the tale of the Course XV senior from New York—who has a flashy blue convertible for the spring term—his "summer car"—and then, after a quick change act appears late in the fall with a black coupe—his "winter car." Apparently Ickes and Henderson haven't completely demoralized the "bettah" classes.

With Boston weather being what it is we wonder whether this lad has a built-in snowplow, too.

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Officers Elected By Spanish Club

Class Representatives Selected for Society Recently Formed Here

The newly formed Grupo De Habla Espanola De M.I.T. has been organized for the purpose of giving Spanish speaking students of the Institute an opportunity to get together and converse in their native tongue.

At the last meeting of the organization elections were held, and the following were elected: Virgilio Baico, '43, from Columbia, President; Leopold S. Wuler, Jr., '42 from the U. S. A., Vice-President; Lorenzo Lamadrid, '44 from Cuba, Secretary-Treasurer; Carlos Argueles, graduate student from the Philippine Islands, graduate students' representative; Eduardo F. Herrerias, '43, from Guatemala and the U.S.A, Junior Class representative; Emilio Touché, '42, from Mexico, Senior Class representative; Antonio Carbonell, '44, Venezuela, Sophomore Class Representative; and Cesar Duran Ballan, '45, from Ecuador and the U.S.A., freshman class representative.

The Executive Committee of the society meets once a week, and the next general meeting is to be a dinner at which an outside speaker is expected.

The club also plans teas and dances with the Wellesley, Smmons and Radcliffe Spanish clubs, and lectures in Spanish.

Debaters Orate

(Continued from Page 1)

unions in the United States" with a team from the University of Vermont. John L. Hummer, '43 will be the chairman of the debate, and George M. Musgrave, '43 is to be timekeeper. The event is to be held in the Oregon two-man style, in which each team is allowed two constructive speeches, one rebuttal, and three question periods.

On Sunday evening at 7:00 P.M. Technology will debate against Harvard at the Old South Church on the subject, "Resolved: That the United States should institute a nation wide system of socialized medicine." The two man team of John L. Hummer, '43 and Phillip J. Bendt, '42 will defend the affirmative. Again, the Oregon two-man style will be used.

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CALENDAR

FRIDAY, NOVEMBER 28

5:00 P.M. Senior Week Committee Meeting—Tyler Lounge.
5:00 P.M. Debate, B.U. vs. M.I.T. Frosh—Litchfield Lounge.
8:00 P.M. Technology International Club Dance—Pritchett Hall.

SATURDAY, NOVEMBER 29

5:00 P.M. Debate, U. of Vermont vs. M.I.T.—Litchfield Lounge.
8:00 P.M. Informal Instruction Dance, Dormitory Dance Committee—Pritchett Hall.

SUNDAY, NOVEMBER 30

7:00 P.M. Debate, Harvard vs. M.I.T.—Old South Church, Boston.

MONDAY, DECEMBER 1

4:00 P.M. A.S.M.E. & A.S.C.E.—Movies on Steel.
5:00 P.M. Freshman Council Meeting—Faculty, Alumni Lounge.
5:00 P.M. T.C.A. Frosh Council Meeting—Tyler Lounge.

Senior Week

(Continued from Page 1)

Maurice E. Taylor, chairman, David S. Christison, and Charles S. Ricker.

John M. Lebolt was appointed chairman of the Tea Dance committee with Fred H. Olsen and Edward S. Edmunds as assistants. The Class Day committee is headed by Carthrae M. Laffoon, Jr., with Thomas T. Crowley as aide.

Tech Night at the Pops will be arranged by a two man committee headed by Albert F. Clear and Franklin P. Seeley as aide. The Baccalaureate ceremonies will be under the directorship of John S. Arend, Robert B. Rumsey, '43, will act as Treasurer for the committee.

Prof. F. A. Magoun

(Continued from Page 1)

stability; mutual ability to grow; agreements on methods concerning religion, money, children, and recreation; and mutual long-run sex attraction.

The next lecture of the series is to be given at 4 and again at 5 next Tuesday afternoon, December 2, in Huntington Hall. Professor Magoun will give a supplementary group of lectures next spring on problems which arise after marriage, at which time a syllabus covering his lectures is to appear.

The Massachusetts Institute of Technology

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Graduate study, leading to the Master's and Doctor's degrees, is offered in Ceramics, Meteorology, and in most of the above professional Courses.

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The Summer Session extending from June to September includes many of the undergraduate subjects given during the academic year.

For information about admission, communicate with the Director of Admissions.

Any of the following publications will be sent free on request:

- Catalogue for the academic year
- Summer Session Bulletin
- Educational Opportunities at the Massachusetts Institute of Technology